

## ABSTRACT OF THE DISCLOSURE

Novel compositions having anti-oxidant, anti-inflammatory and/or cosmetic utility for a mammal, combine at least one peptide copper complex and at least one phytochemical compound. More particularly, disclosed are such novel compositions where the phytochemical compound is a polyphenol or a carotenoid, the polyphenol being a flavanoid, a flavonoid, a flavonoid derivative, a flavolignan, a polyphenolic rhizome, or a mixture thereof. Compositions for topical application are disclosed that include additives such as emollients, sunscreen agents, skin protectants, skin conditioning agents, and humectants. Also disclosed are methods, employing such compositions, for enhancing or restoring the resistance of a mammal to oxidative or inflammatory damage, for accelerating wound healing, for cosmetically healing mammalian skin, and for stimulating hair growth, or preventing or treating hair loss.

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